Report

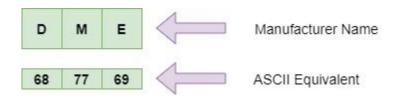
MBus Decoder Task

By Sarang Gangadharan (18.02.2021)

Steps followed in analysing and solving the task

Step 1:

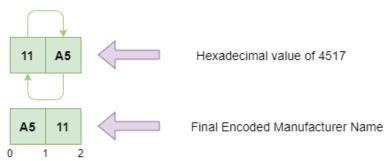
The 1st two bytes of the array is encoded with manufacturer name, lets understand the encoding consider the given example **DME**.



The manufacturer name is coded using the following formula:

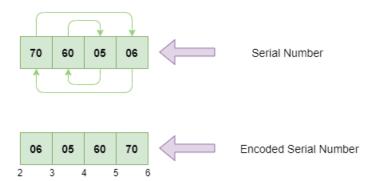
For the Given example the value will be:

The Hexadecimal equivalent of above-obtained value will be.



Step 2:

The last 4 bytes of the array i.e. 2nd byte to 5th byte consists of the Serial Number. Let's understand the encoding as per the given example i.e **70600506**.

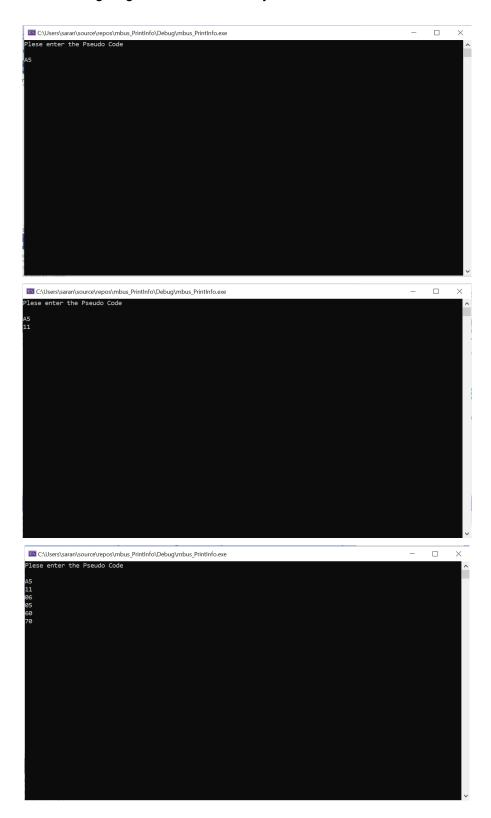


Description of how the source code was tested.

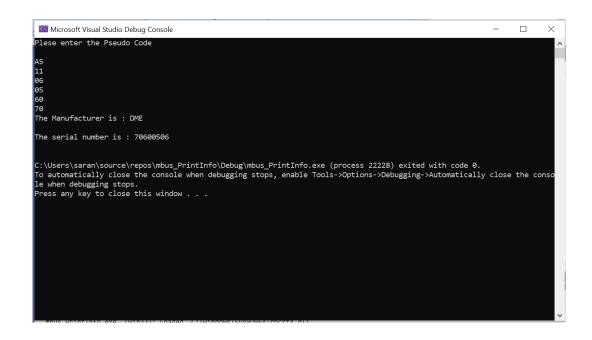
1) The user will be prompted to give the input



2) Press enter after giving values of each array element as shown below:



3) The Output in Human Readable format is obtained as shown below:



4) The program will print out the manufacturer name and serial number for any valid hexadecimal data given by the user as shown in the above example.